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## ASSIGNMENT BOOKLET 3A

SCN2285 Science 24

Module 3: Section 1 Assignment and Section 2 Assignment

### FOR STUDENT USE ONLY

Date Assignment Submitted:

(If label is missing or incorrect)

Time Spent on Assignment:

Student File Number:

Module Number: \_\_\_\_\_

### FOR OFFICE USE ONLY

Assigned Teacher: \_\_\_\_\_

Assignment Grading: \_\_\_\_\_

Graded by: \_\_\_\_\_

Date Assignment Received: \_\_\_\_\_

### Student's Questions and Comments

Apply Module Label Here

Name  
Address

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*Please verify that preprinted label is for  
correct course and module.*

### Teacher's Comments

\_\_\_\_\_  
Teacher

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- Are all the assignments completed? If not, explain why.
- Has your work been reread to ensure accuracy in spelling and details?
- Is the booklet cover filled out and the correct module label attached?

### **MAILING**

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2. Put your Assignment Booklet in an envelope and take it to the post office and have it weighed. Attach **sufficient postage** and seal the envelope.

### **FAXING**

1. Assignment Booklets may be faxed to the school with which you are registered. Contact your teacher for the appropriate fax number.
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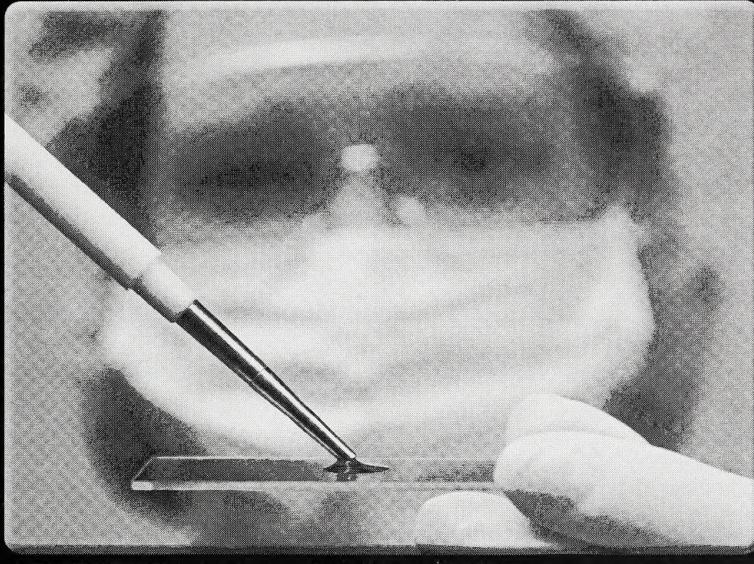
### **E-MAILING**

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# SCIENCE 24

MODULE 3 ■ ASSIGNMENT BOOKLET 3A

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Learning  
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## FOR TEACHER'S USE ONLY

### Summary

	Total Possible Marks	Your Mark
Section 1 Assignment	28	
Section 2 Assignment	18	
	46	

### Teacher's Comments

#### Science 24

Module 3: Disease Defence and Human Health

Assignment Booklet 3A

Section 1 Assignment and Section 2 Assignment

Learning Technologies Branch

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(microscope slide and sign)

**The Learning Technologies Branch acknowledges with appreciation the Alberta Distance Learning Centre and Pembina Hills Regional Division No. 7 for their review of this Assignment Booklet.**

This document is intended for

Students	✓
Teachers	✓
Administrators	
Home Instructors	
General Public	
Other	

You may find the following Internet sites useful:



- Alberta Learning, <http://www.learning.gov.ab.ca>
- Learning Technologies Branch, <http://www.learning.gov.ab.ca/ltb>
- Learning Resources Centre, <http://www.lrc.learning.gov.ab.ca>

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**ASSIGNMENT BOOKLET 3A**  
**SCIENCE 24: MODULE 3**  
**SECTION 1 ASSIGNMENT AND SECTION 2 ASSIGNMENT**

This Assignment Booklet is worth 46 marks out of the total 100 marks for the assignments in Module 3. The value of each assignment and each question is stated in the left margin.

Read all parts of your assignment carefully and record your answers in the appropriate places. If you have difficulty with an assignment, go back to your Student Module Booklet and review the appropriate lesson. Be sure to proofread your answers carefully before submitting your Assignment Booklet.

**Section 1 Assignment: Disease**

**28**

For questions 1 to 4, read each question carefully. Decide which of the choices BEST completes the statement. Place your answer in the blank space given.

**1**

\_\_\_\_\_ 1. A condition that allows bacteria to reproduce quickly is

- A. sunlight
- B. dry air
- C. wind
- D. warm temperature

**1**

\_\_\_\_\_ 2. A general term for disease-causing microbes is

- A. parasite
- B. pathogen
- C. pathway
- D. protist

**1**

\_\_\_\_\_ 3. Athlete's foot is a

- A. fungus
- B. virus
- C. bacteria
- D. protist

**1**

\_\_\_\_\_ 4. A process started by Louis Pasteur that kills microbes is known as

- A. resistance
- B. pasteurization
- C. colonization
- D. immunization

(3)

5. Bacteria need \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ in order to multiply.



Return to page 14 of the Student Module Booklet and begin Lesson 2.

For questions 6 to 8, read each question carefully. Decide which of the choices BEST completes the statement or answers the question. Place your answer in the blank space given.

(1)

\_\_\_\_\_ 6. Which of the following is a communicable disease?

- A. emphysema
- B. meningitis
- C. cancer
- D. arthritis

(1)

\_\_\_\_\_ 7. Which of the following cannot be spread by unsafe handling of food?

- A. botulism
- B. dysentery
- C. diabetes
- D. salmonella

(1)

\_\_\_\_\_ 8. A non-communicable disease can be caused by

- A. a poor diet
- B. genetics
- C. poor environmental conditions
- D. all of the above

9. State whether each of the following statements is true (T) or false (F). Place your answer in the blank space given.

(1)

\_\_\_\_\_ a. A communicable disease cannot be spread in swimming pools.

(1)

\_\_\_\_\_ b. Botulism is passed through food.

(1)

\_\_\_\_\_ c. Influenza can be passed through the air.

(1)

\_\_\_\_\_ d. Athlete's foot is a non-communicable disease.

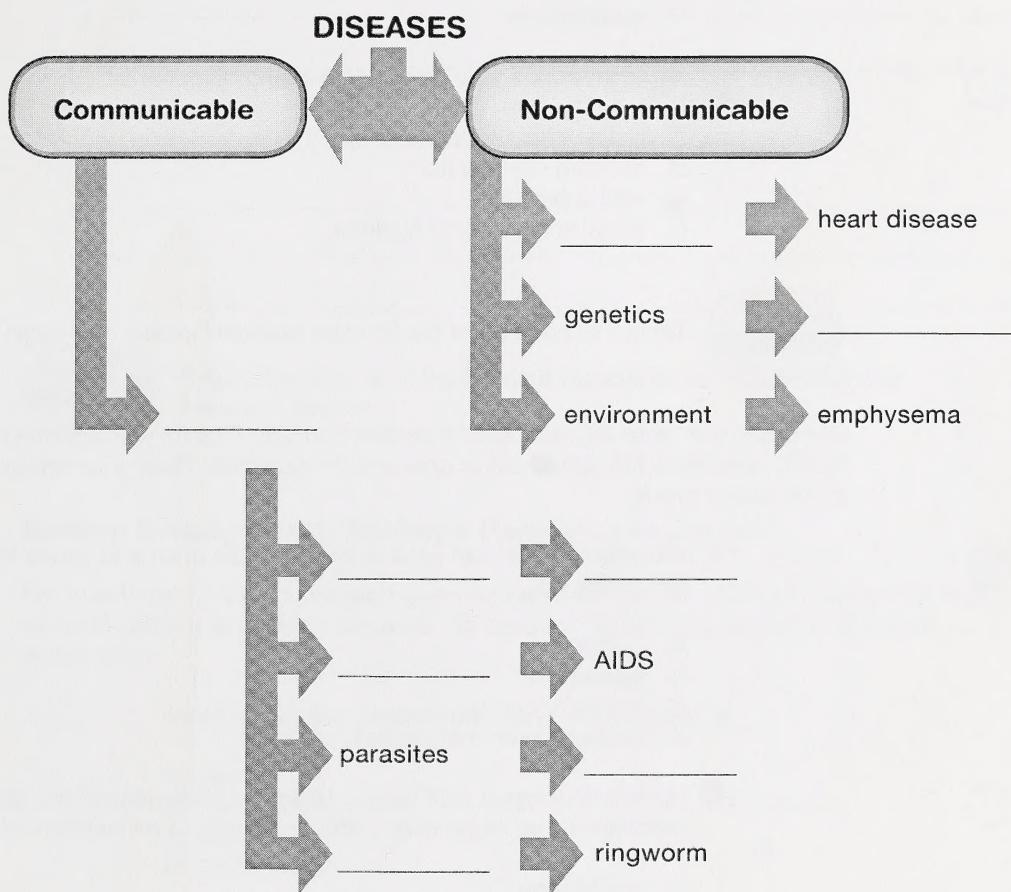


Return to page 19 of the Student Module Booklet and begin Lesson 3.

(4)

10. Use the following terms to complete the diagram.

- bacteria
- fungi
- pathogens
- E. coli
- cystic fibrosis
- *Giardia*
- viruses
- lifestyle



For questions 11 to 13, read each question carefully. Decide which of the choices BEST completes the statement. Place your answer in the blank space given.

(1)

11. Factors that increase your chances of getting sick are called

- A. risk factors
- B. skill factors
- C. foreign factors
- D. severe factors

12. A possible result of drinking unclean water is

- A. AIDS
- B. parasites
- C. emphysema
- D. tuberculosis

13. You can reduce your risk of developing diabetes by

- A. not smoking tobacco
- B. drinking clean water
- C. eating properly
- D. practising personal hygiene



Return to page 22 of the Student Module Booklet and begin Lesson 4.

For questions 14 to 16, read each question carefully. Decide which of the choices BEST completes the statement or answers the question. Place your answer in the blank space given.

14. A bacterium that can grow in the absence of air and cause food poisoning is

- A. E. coli
- B. salmonella
- C. staphylococcus
- D. the bacterium that causes botulism

15. Having all surgical staff wear rubber gloves to prevent the spread of pathogens that might hide under fingernails is an example of

- A. sterilization
- B. an antiseptic practice
- C. an aseptic practice
- D. a disinfectant practice

16. Which of the following did Joseph Lister spray on a patient's wound before performing surgery?

- A. acetic acid
- B. carbolic acid
- C. carbonic acid
- D. sulfuric acid

② 17. Describe how methylene blue can be used to check the effectiveness of an antiseptic or disinfectant.

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② 18. Why is there a glass cover above the salads at most salad bars?

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Return to page 28 of the Student Module Booklet and begin the Section 1 Review.

## Section 2 Assignment: Society's Response to Disease

18

For questions 1 and 2, read each question carefully. Decide which of the choices BEST completes the statement or answers the question. Place your answer in the blank space given.

① 1. An example of a present-day pandemic disease is

- A. AIDS
- B. bubonic plague
- C. Spanish flu
- D. tuberculosis

① 2. Which term refers to a disease that is widespread and difficult to control?

- A. epidemic
- B. quarantine
- C. pandemic
- D. plague

3. Match the statement with the appropriate term from the following list. Place your answer in the blank space given.

i. AIDS                    ii. bubonic plague                    iii. tuberculosis                    iv. quarantine  
v. Spanish flu            vi. poor sanitation                    vii. sanatorium                    viii. public health

①        \_\_\_\_\_ a. Pandemic diseases in the past generally spread through the result of this.

①        \_\_\_\_\_ b. A government body that alerts people to potential health concerns.

①        \_\_\_\_\_ c. A lung disease that killed many Aboriginal and Inuit people in western Canada.

①        \_\_\_\_\_ d. Fear and confusion has resulted in the negative treatment toward those with this disease.

①        \_\_\_\_\_ e. Patients with tuberculosis were sent to this special facility.



Return to page 34 of the Student Module Booklet and begin Lesson 2.

For questions 4 to 6, read each question carefully. Decide which of the choices **BEST** completes the statement. Place your answer in the blank space given.

①        \_\_\_\_\_ 4. The responsibility of maintaining high standards of personal hygiene is the responsibility of

A. government  
B. every individual  
C. private agencies  
D. public health

①        \_\_\_\_\_ 5. An air quality index of 0–15 is an indication of air quality that is

A. poor  
B. moderate  
C. good  
D. very good

①        \_\_\_\_\_ 6. A way to increase a person's ability to fight certain diseases is to provide

A. clean water  
B. vaccinations  
C. well-cooked food  
D. high air quality

② 7. Describe how proper removal and disposal of garbage helps maintain community health.

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Return to page 36 of the Student Module Booklet and begin Lesson 3.

For questions 8 and 9, read each question carefully. Decide which of the choices BEST completes the statement or answers the question. Place your answer in the blank space given.

① \_\_\_\_\_ 8. Which factor contributes to the spread of disease?

A. migration  
B. lifestyle  
C. food supply  
D. all of the above

① \_\_\_\_\_ 9. An alert from public health authorities that warns the public about a health concern is called a(n)

A. vaccination  
B. pandemic  
C. advisory  
D. epidemic

② 10. Explain what must be done when public health authorities recall a food item.

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(2) 11. The bicycle helmet law in Alberta requires that all cyclists under the age of 18 wear a helmet while riding a bicycle. Give **two** reasons why it is important for adults to also wear a helmet while cycling.

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**Submit your completed Assignment Booklet 3A to your teacher for assessment.**  
Then return to page 40 of the Student Module Booklet and begin the Section 2 Review.